OM protein - protein search, using sw model

April 25, 2000, 20:18:59; Search time 67:51 Seconds (without alignments) 444.374 Million cell updates/sec Run on:

US-09-125-005-6 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

142080 segs, 47169319 residues

Searched:

142080 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 1000000

Post-processing: Minimum Match 0% Listing first 45 summaries

PIR_62:* 1: piri:* 2: pir2:* 3: pir3:* 4: pir4:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STRAMADIES

		d			SUMMARIES	•
Result No.		Query Match	Length	BO	ជ	Description
	851.5		396	Н	JH0631	cellular tumor ant
7	778	23.0	367	ı —	802193	tumor
e	760.5	ď	386	Н	S51648	
4	749	ď	396	Н	JH0633	tumor
S	741.5	ä	393	7	JC6176	presso
ø	_	ä	363	-	A29376	tumor
7	ä	4	391	Н	S02192	ಹ
œ	2	ä	391	~	JC6193	tumor suppressor p
6	724.5	i	393	Н	DNHU53	cellular tumor ant
10	끍	H.	393	н	506594	cellular tumor ant
11	Ξ	i	390	Н	DNMS53	cellular tumor ant
12	•	ö	381	~	S38824	cellular tumor ant
13	248.5	•	77	N	146226	p53 - dog (fragmen
71	2	•	903	N	T00074	hypothetical prote
15	П	•	864	~	T04518	hypothetical prote
16	139.5	•	a	N	T13283	probable transcrip
17	133	•	1273	~	S58782	SEC31 protein - ve
18	131.5	•	m	ď	A56577	microtubule-associ
19	129	•	306	~	A24354	extensin precursor
50	127.5	•	784	N	S26638	SPR-1 protein - hu
21	126	•	817	~	S51342	verprolin - yeast
22		•	~	~	T02909	hypothetical prote
23	125.5	•	n	~	T02885	peroxisome prolife
24	-	•	1081	~	T13231	dachshund protein
25	124.5		m	-	A55535	versican precursor
56	124		650	~	T04487	
27	124	3.7	0	П	JW0051	nine-
28	_		1099	~	A56155	tumor suppressor p
53	123.5	•	v	~	S21424	n - human
30	123		0	7	T13230	dachshund isoform

transcription acti CREB binding prote	ckes-binding prote eyelld - fruit fly dachshund protein	dachshund protein dachshund protein translation initia	capsid protein – h protein p130 – rat ALR protein – huma	ALR protein - huma transcription acti tight junction pro hydroxyproline-ric
A42091 S39162	713049 71328	T13232 T13229 A44453	WMBEW6 S46992 T03455	T03454 S66736 A47747 S06733
000	400	n in n	- 6 6	0000
1638	2715	1072 1074 1396	635 968 4957	5262 1081 1736 -620
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123	123.5	122.5	118.5 118.5 118.5	118.5 118 118
322	33.4	33.3 87.8	4 4 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 4 4 2 6 4 2

ALIGNMENTS

23.53	RESULT 1 JHD631
ŭ	cellular tumor antigen p53 – rainbow trout
ΰ	C; Species: Oncorhynchus mykiss (rainbow trout)
ΰ	C;Date: 10-Sep-1999 #sequence_rev1sion 10-Sep-1999 #text_change 10-Sep-1999
ΰ	C; Accession: JH0631
æ	R;de Fromentel, C.C.; Pakdel, F.; Chapus, A.; Banev, C.; Mav, P.; Soussi, T.
ĕ	Gene 112, 241-245, 1992
Ā	A; Title: Rainbow trout p53: cDNA cloning and biochemical characterization.
Ä	A; Reference number: JH0631; MUID:92210006
Ä	A; Accession: JH0631
Ä	A; Molecule type: mRNA
ď.	A; Residues: 1-396 <def></def>
Ä	A;Cross-references: GB:M75145; NID:g213828; PIDN:AAA49605.1; PID:g213829
Ä,	A; Experimental source: liver
Ü	C; Comment: This protein is the product of a tumor suppressor gene, p53, whose ir
Ü	C; Superfamily: cellular tumor antigen p53
Ü	C; Keywords: apoptosis; cell division control; DNA binding; homotetramer; nucleus
Œ,	F;164,167,227,231/Binding site: zinc (Cys, His, Cys, Cys) #status predicted
ш	F;395/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted

Gaps ., Query Match 25.2%; Score 851.5; DB 1; Length 396; Best Local Similarity 55.6%; Pred. No. 4.9e-52; Matches 170; Conservative 43; Mismatches 86; Indels 7;

.. U1

93 VPTHSPYAQPS-STFDIMS-PAPVIPSNIDYPGPHHFEVIFQOSSTAKSAIWIYSPLLKK 150 à g

151 LYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVTDVVKRCPNHELGRDFNEGQSAP 210 გ à

211 ASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFTTILYNFMCNSSCVGGMNRRP 270 ä 셤

271 ILIIITLEMRDGOVLGRRSFEGRICACPGRDRKADEDHYREQQALN-ESSAKNGAASKRA 329 ö

330 FKQSPPAVPALGAGVKKRRH---GDEDTYYLQVRGRENFEILMKLKESLELMELVPQPLV 386 **8**. ö

387 DSYRQQ 392. 요 ò

DKYRQK 365

360

8

11;

11

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Keywords: apoptosis; cell division control; DNA binding; homotetramer; nucleus; 179,182,241,245/Binding site: zinc (Cys, His, Cys, Cys) #status predicted 395/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N'Alternate names: tumor-suppressor protein p53
C'Species: Mesocricetus auratus (golden hamster)
C'Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
                                                                                                                                                                                                                                                      QIKVSTPPPPGTAIRAMPVYKKAEHVIDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNN 221
                                                                                                                                                                                                                                                                                                                                              GQVLGRRSFEGRICACPGRDRKADEDHYREQ-QALNESSAKNGAASKRAFKQSPPAVPAL 340
                                                                                                                           60 SVMAQFNILISSTMDQMSSRAASASPYT-----PEHAASVPTHS-PYAQPSSTFDTM 109
                                                                                                                                                                                                                       110 SPAPV-----IPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPI 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60 ALGGSAAAAAPAAP--AAEDPVAETPAPVASAPAI-----PWPLSSSVPSYKTYQGDYGF 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74 QMSSRAASASPYTPEHAASVP---THSPYAQPSSTFDIMSPAPV---IPSNTDYPGPHHF 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TFSDLWKLLPPNNVLSTLPSS------DSIEELFLSENVA-----GWLEDPGE 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Molecule type: mRNA
A;Residues: 1-396 <LEG>
A;Cross-references: GB:M75144; NID:g191414; PIDN:AAA37085.1; PID:g191415
A;Experimental source: kidney, strain MP1
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                   LSQYVDDPVIGRQSVVVPYEPPQVGTEFTILLYNFMCNSSCVGGMNRRPILIIILLEMRD
                                                                                                                                                          24 NLLPENNLLSS---ELSAPVDDLLPYTDVATWLDECPNEAPQMPEPSAPAAPPPAT----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGVKKRRHGDEDTYYLQVRGRENFEILMKLKESLELMELVPQPLVDSYRQQQQLLQRPS
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                                 Length 386;
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                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22.1%; Score 749; DB 1; Length 39
43.8%; Pred. No. 6.8e-45;
tive 58; Mismatches 104; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Title: The cDNA cloning and immunological characterization A; Reference number: JH0633; MUID:92210007
                                 DB 1;
                                                                             105;
                            Score 760.5; DB
Pred. No. 1e-45;
3; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361 HLKSKKRPSPSCHKKPMLKREG 382
                                                                             63;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Legros, Y.; McIntyre, P.; Soussi,
ne 112, 247-250, 1992
                              22.5%;
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Matches 165; Conservative
                                                                             Conservative
                            Query Match
Best Local Similarity
Watches 169; Conserv
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C; Superfamily: cellular tumor antigen p53
C; Reywords: apoptosis; cell division control; DNA binding; homotetramer; phosphoprotein; F; 168,171,231,235,Paliding aite: zinc (Cys, His, Cys, Cys) #status predicted
F; 385/Binding site: phosphory1-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dequiedt, F.; Willems, L.; Burny, A.; Kettmann, R. ubmitted to the EMBL Data Library, September 1994; Description: Nucleotide sequence of the Ovine p53 tumor-suppressor gene cDNA and its : Reference number: S51648
                                                                                                                      R;Soussi, T.; Begue, A.; Kress, M.; Stehelin, D.; May, P.
Nuclaic Acids Res. 16, 11183, 1988
Affitle: Nucleotide sequence of a cDNA encoding the chicken p53 nuclear oncoprotein.
A;Reference number: S02193; MUID:89083584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ~
                                                C:Species: Gallus gallus (chicken)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: S02193
                                                                                                                                                                                                                                       A; Molecula type: mRNA
A; Residues: 1-367 <SOU>
A; Residues: 1-367 <SOU>
A; Residues: 1-367 <SOU>
A; Cross-references: EMBL:X13057; NID:963740; PIDN:CAA31456.1; PID:963741
C; Superfamily: cellular tumor antigen p53
C; Keywords: apoptosis; cell division control; DNA binding; homotetramer; nuc F; 161,164,224,228/Binding site: zinc (Cys, His, Cys, Cys) #status predicted F; 366/Binding site: phosphory1-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alternate names: tumor-suppressor protein p53
Species: Bos primigenius taurus (cattle)
Date: 10-Sep-1999 #sequence_revision 10-Sep-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      254
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   102 GTAKSVTCTYSPVLNKVYCRLAKPCPVQVRVGVAPPPGSSLRAVAVYKKSEHVAEVVRRC 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            75 MSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEVTFQQS 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SDPPPPPPPPPPLPLAAAAPPPLNPPTPPRA----APSPVVPSTEDYGGDFDFRVGFVEA 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STAKSATWIYSPLLKKLYCQIAKICPIQIKVSTPPPPGTAIRAMPVYKKAEHVIDVVKRC 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                255 NFMCNSSCVGGMNRRPILLIITLEMRDGQVLGRRSFEGRICACPGRDRKADEDHYREQQA 314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              281 A-----GGVAKRA--MSPP-TEAPEPPKKRVLNPDNEIFYLQVRGRRRYEMLKEINEA 330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15 FEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMDQ 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFTTILY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 367;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 23.0%; Score 778; DB 1; Length 36
Best Local Similarity 44.1%; Pred. No. 5.8e-47;
Matches 164; Conservative 56; Mismatches 106; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15 FMDLWSMLPYSMQQLPLPEDHSNWQEL-----
ular tumor antigen p53 - chicken
ternate names: nuclear oncoprotein p53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     llular tumor antigen p53 - bovine
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Residues: 1-386 <DEQ>
                                                                                                                                                                                                                  Accession: S02193
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C;Superfamily: cellular tumor antigen p53
C;Keywords: apoptosis; cell division control; DNA binding; homotetramer; nucleus
F;150,153,213,217/Binding site: zinc (Cys, His, Cys, Cys) #status predicted
F;362/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                    A; Wolecule type: mRNA
A; Residues: 1-363 < SOUD
A; Residues: 1-363 < SOUD
A; Residues: 1-363 < SOUD
A; Cross-references: EMBL: X05191; NID:964961; PIDN:CAA28821.1; PID:964962
B; Hoever, M.; Clement, J.H.; Wedlich, D.; Montenarh, M.; Knoechel, W.
Concogene 9, 109-120, 1994
A; Title: Overexpression of Wild-type p53 Interferes with normal development in paracession: S61531
A; Reference number: 151639; MUID:94134403
A; Residues: 1-203, 2053-363
A; Cross-references: EMBL:X77546; NID:9468513; PIDN:CAA54672.1; PID:9468514
B; Hoever, M.; Clement, J.; Wedlich, D.; Montenarh, M.; Knochel, W.
                                                                                                                                                                                                        for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12;
                  Cispecies: Xenopus laevis (African clawed frog
Cispecies: Xenopus laevis (African clawed frog)
Cibate: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
CiAccession: A29176; S61531; S72313; I51639
Risoussi, T.; de Fromentel, C.C.; Mechali, M.; May, P.; Kress, M.
A;Title: Cloining and character****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Molecule type: mRNA
A;Residues: 1-51,'S',53-70,72-293,295-363 <HOW>
A;Cross-references: EMBL:X77546; NID:9468513; PIDN:CAA54672.1; PID:9468514
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                                                                                                                                                        A) Reference number: A29376; MUID:88143684
A:AAccession: A29376
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21.9%; Score 741; DB 1; Length 363;
Best Local Similarity 41.7%; Pred. No. 2.2e-44;
Matches 169; Conservative 54; Mismatches 92; Indels
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A; Accession: S72313
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                                                                                                                                                                                                                                                                                                                                                                                                                      tumor suppressor protein p53 - Chinese hamster
'Species Circetulus griseus (Chinese hamster)
C:Date: 11-Ap-1997 #sequence_revision 09-May-1997 #text_change 23-Jul-1999
C;Accession: JC6176
                                                                                                                                                                                                    290 KNFQKKGEPCPELPPKSAKRALPINISSSPQP------KRKRILDGEYFILKIRGG 338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       74 OMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEVTFQQ 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67 AAASTAEDPVTETPAPVASAPA-TPWPLSSS------VPSYKTFQGDYGFRLGFLH 115
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TFSDLWKLLPPNNVLSTLPSS------DSIEELFLSENVTGWLEDSGGALQGVAA 66
TDVVKRCPNHELGRDFNEGQS-APASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVG
                              247 TEFTTILYNFMCNSSCVGGMNRRPILIITLENRDGQVLGRRSFEGRICACPGRDRKADE
                                                                                                              DHYREQ----QALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVRGR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 393;
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en 184, 177-183, 1997
Title: Cloning and characterization of Chinese hamster p53
Reference number: JC6176; MUID:97183659
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llarity 43.7%; Pred. No. 2.2e-44;
Conservative 57; Mismatches 111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Superfamily: cellular tumor antigen p53 Keywords: liver; tumor
                                                                                                                                                                                                                                                                363 ENFEILMKLKESLELME 379
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ERFKMFQELNEALELKD 355
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QELNEALELKD 352
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Best Local Simi.
Matches 162;
    188
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Gaps

Indels 57; Length 391;

49

167

308

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A;Molecule type: mRNA
A;Residues: 1-391 <LEA>
A;Cross-references: EMBL:X90592; NID:91532043; PIDN:CAA62216.1; PID:e194962; PID:9153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         309 YREQQALNESSAKNG-----AASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVR 360
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78 RAASASPYTPEHAASVP-THSPYAQPSSTFDIMSPAPV-----IPSNTDYPGPHHFE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              49 -VANWLNEDPEEGLRVPAAPAPAPAAPAAPALAAPATSWPLSSSVPSQKTYHGNYGFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            129 VTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DVVKRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   249 FITILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGRICACPGRDRKADEDH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 21.4%; Score 724.5; DB 2; Best Local Similarity 43.5%; Pred. No. 3.4e-43; Matches 165; Conservative 54; Mismatches 103;
                        A; Reference number: JC6193; MUID: 97208869
                                                                                                                                                                                                                                                                                                                                                   Superfamily: cellular tumor antigen p53
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                                                                                                                                                                                                                                                                                                                                                                                          C; Keywords: tumor
                                                                                                                                                                                                                                                                                                  A; Gene: p53
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C; Superfemily: cellular tumor antigen p53
C; Superfemily: cellular tumor control: DNA binding; homotetramer; nucleus; phosph
C; Stylorofas: apoptosis; cell division control: DNA binding; homotetramer; nucleus; phosph
F; 174, 177, 236, 240/Painding site: zinc (Cys, His, Cys, Cys) #status predicted
F; 390/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Note: the nucleotide sequence was submitted to the EMBL Data Library, December 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
Accession: 502192; $41149
Local Soussi, T.; de Fromentel, C.C.; Breugnot, C.; May, E.
ucleic Acids Res. 16, 11384, 1988
Titlei Nucleotide sequence of a CDNA encoding the rat p53 nuclear oncoprotein.
Reference number: 502192; MUID:89083585
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C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 11-Apr-1997 #sequence_revision 09-May-1997 #text_change 23-Jul-1999
C;Accession: JG6193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67 LLSSTMDQMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPV------ 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 115 -IPSNIDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGT 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AIRAMPVYKKAEHVTDVVKRCPNHELGRDFNEGOSAPASHLIRVEGNNLSQYVDDPVTGR 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QSVVVPYEPPQVGTEFTILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGR 293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ICACPGRDRKADEDHYREQQ ---- ALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRH 349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVF-----HLEGMTTSVMAQFN 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ------TEAPAPASATPWPLSS 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                Residues: 1-391 <SOU>
Residues: 1-391 <SOU>
Cross-references: Babl.X13058; NID:956828; PIDN:CAA31457.1; PID:956829
Halla, J.E.; Schneider, R.P.
Icleic Acids Res. 21, 713-717, 1993
Title: Structure of the rat p53 tumor suppressor gene.
Reference number: S41149; MUID:93181268
Accession: S41149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R;Le Goas, F.; May, P.; Ronco, P.; de Fromentel, C.C.
Gene 185, 169-173, 1997
A;Title: cDNA cloning and immunological characterization of rabbit p53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 391;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21.7%; Score 735.5; DB 1; Length 42.8%; Pred. No. 5.8e-44; tive 55; Mismatches 87; Indels
ar tumor antigen p53 · rat
rnate names: gene p53 protein; nuclear oncoprotein p53
les: Rattus norvegicus (Norway rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18 TFSCLWKLLPPDDI---LPTTA----TGSPNSMEDLFLPQDVAELLEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GDEDTYYLQVRGRENFEILMKLKESLELME 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $
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esidues: 1-173,'W',175-391 <F
cose-references: EMBL:L07909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 42.8
Matches 167; Conservative
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A) Residues: 1-393 <LAND
A) Cross references: EMBL:X01405; GB:M13121; GB:N00032; NID:g189460; PIDN:AAA59987.1;
A) Cross references: EMBL:X01405; GB:M13121; GB:N00032; NID:g189460; PIDN:AAA59987.1;
RS:Buchman, V.L.; Chumakov, P.M.; Ninkina, N.N.; Samarina, O.P.; Georgiev, G.P.
Gene 70, 245-252, 1988
A) Riltle: A variation in the structure of the protein-coding region of the human p53 g
A) Reference number: JT0436; MUID:89108008
cellular tumor antigen p53 – human
N;Alternate names: cellular phosphoprotein p53; oncoprotein p53; transformation suppr
                                                                                                                                                                                                                                         | Species: Homo saplens (man) | Species: Homo saplens (man) | Species: Homo saplens (man) | Species: O5-Oct-1988 #sequence_revision 18-Nov-1994 #text_change 22-Jun-1999 | Species: O5-Oct-1988 #sequence_revision 18-Nov-1994 #text_change 22-Jun-1999 | Species: A25244, A45073; JT04456; S40773; S42669; A22837; A55060; A25397; B25397; Jamb, P.; Crawford, L. Seolis: Seolis: Seolis: Seolis: Seolis: Seolis: A25397; B25397; B25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cross-references: EMBL:M22898; NID:9189474
Note: this 72-Arg allele appears to be about 5 times more frequent than the 72-Pro
Accession: J70436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Molecule type: DNA
| Residues: 1-71,'P',73-393 <BUC2>
| Cross-references: EMBL:M22898; NID:g189474; PIDN:AAA59988.1; PID:g189476
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Cross-references: EMBL:X54156; NID:g35213; PIDN:CAA38095.1; PID:g35214
Yamada, Y.; Yoshida, T.; Hayashi, K.; Sekiya, T.; Yokota, J.; Hirohashi, S.; Na
ncer Res. 51, 5800-5805, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lie: p53 gene mutations in gastric cancer metastases and in gastric cancer se
ference number: A44905; MUID:92034678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Title: Use of the single strand conformation polymorphism technique and PCR to Reference number: 158354; MUID:91296386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *Nolecule type: mRNA
Residues: 1-253, 'D', 255-393 <r1>
*Residues: 1-253, 'D', 255-393 </ri>
*Residues: 1-253, 'D', 255-393 </ri>
*Note: all sequences EMBL: *ROBOS (** M180 ** M1
Residues: 1-192,'R',194-393 <F02>
Cross-references: EMBL:X60011; NID:g506434; PIDN:CAA42626.1; PID:g506435
Accession: 138084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Molecule type: mRNA
A;Residues: 1-245,'T',247-393 <F04>
A;Cross:references: EMBL:X60013; NID:9506438; PIDN:CAA42628.1; PID:9506439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Molecule type: mRNA'
;Residues: 1-71,'P',73-237,'Y',239-393 <F07>
;Cross-references: EMBL:X60016; NID:9506444; PIDN:CAA42631.1; PID:9506445
;Accession: I38089
;Status: translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                       A;Molecule type: mRNA
A;Residues: 1.393 xF03>
A;Cross.references: EMBL:X60012; NID:9506436; PIDN:CAA42627.1; PID:9506437
A;Accession: I38085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1.236, 11, 238-393 <F05>
A; Cross-references: EMBL:X60014; NID:9506440; PIDN:CAA42629.1; PID:9506441
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Jecule type: mRNA
ssidues: 1-71, Pv.73-162, 'H', 164-393 <P09>
coss_references: EMBL:X60018; NID:9506448; PIDN:CAA42633.1; PID:9506449
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Slecule type: mRNA
ssidues: 1-212, 'Q',214-393 <F10>
coss_references: EMBL:X60019; NID:9506450; PIDN:CAA42634.1; PID:9506451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Molecule type: mRNA
A;Residues: 1.247, 'Q',249-393 <F06>
A;Cross.references: EMBL:X60015; NID:9506442; PIDN:CAA42630.1; PID:9506443
A;Accession: 138088
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Residues: 1-247, 'Q', 249-393 <F08>
Cross-references: EMBL:X60017; NID:g506446; PIDN:CAA42632.1; PID:g506447
Accession: 138090
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A; Residuas: 246.247, Wv, 249-250 < YAM>
A; Residuas: 246.247, Wv, 249-250 < YAM>
A; Residuas: 246.247, Wv, 249.250 < YAM>
A; Cross references: GB:66137; ND:9237829; PIDN:AAB20140.1; PID:9237830
A; Note: sequence extracted from NCBI backbone (NCBIN:63157, NCBIP:63158)
A; Note: mutation from a liver metastasis of a gastric cancer
R; Hensel, C.H.; Xang, R.H.; Sakaguchi, A.Y.; Naylor, S.L.
Oncogene 6, 1067-1071, 1991
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Status: translated from GB/EMBL/DDBJ
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Residues: 1-393 <FUT>
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Residues: 1-393 «CHD»

; Residues: 1-393 «CHD»

; Cross-references: EMBL:X54156; NID:g35213; PIDN:CAA38095.1; PID:g35214

; Matlashewski, G.; Lamb, P.; Pim, D.; Peacock, J.; Crawford, L.; Benchimol, S.

MBO J. 3, 3257-3262, 1984

MBO J. 3, 3257-3262, 1984

*Title: Isolatrion and characterization of a human p53 cDNA clone: expression of the hum

; Reference number: S42669; MUID:85126934
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Residues: 1-71, P., 73-393 <ZAK>
Residues: 1-71, P., 73-393 <ZAK>
Eroso-terences: ENBL:XO2469; EMBL:M60950; NID:g35209; PIDN:CAA26306.1; PID:g35210
Harlow, E.; Williamson, N.M.; Ralston, R.; Helfman, D.M.; Adams, T.E.
1. Cell. Biol. 5, 1601-1610, 1985
Title: Molecular cloning and in vitro expression of a cDNA clone for human cellular tu
Reference number: A55060; MUID:85267676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Residues: 101-393 AMXID
Residues: 101-393 AMXID
Cross-references: EMBL:X01405; NID:g35215; PIDN:CAA25652.1; PID:g642241
Cross-references: EMBL:X01405; NID:g35215; PIDN:CAA25652.1; PID:g642241
EARU-HOUTL, R.; Bienz-Tadmor, B.; Givol, D.; Oren, M.
EBO J. 4, 1251-1255, 1985
Titlel: Human p53 cellular tumor antigen: cDNA sequence and expression in COS cells.
Accession: A22837; MUID:85230577
Accession: A22837
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Cross-references: EMBL:X60010; NID:9506432; PIDN:CAA42625.1; PID:9506433
Note: deletion of a C nucleotide causes a frameshift at position 566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Molecule type: mRNA
Residues: 1-71, Pr. 73-272, Hr. 274-393 <HAR>
Cross-references: GB:R03199; NID:g189478; PIDN:AAA59989.1; PID:g189479
Cross-references: GB:R03199; NID:g189478; PIDN:AAA59989.1; PID:g189479
Experimental source: clone pR4-2, cell line A431
Harris, N.; Brill, E.; Shohat, O.; Prokocimer, M.; Wolf, D.; Arai, N.; Rotter, T. Cell Biol, 6, 4650-4656, 1986
Title: Molecular basis for heterogeneity of the human p53 protein.
Reference number: A93086; MUID:87089826
Accession: A25397
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                   normal and malignant cell lines
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esidues: 1-78,'T',80-393 <HARL>
ross-references: EMBL:M14694; NID:g339813; PIDN:AAA61211.1; PID:g339814
xperimental source: clone p53-H-1, transformed hybridoma SV-80 cell line
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sidues: 66-71,'P',73-79 <MKI2>
perimental source: clone lambda C113
te: 72-Cys was also found, and appears to represent a polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Experimental source: clone J6K
Farrell, P.J.; Allan, G.J.; Shanahan, F.; Vousden, K.H.; Crook, T.
80 J. 10, 2879-2887, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Title: p53 is frequently mutated in Burkitt's lymphoma cell lines.
Reference number: 138082; MUID:92007731
A;Note: this 72-Pro allele was found in both nor R;Chumakov, P.M.; Almazov, V.P.; Jenkins, J.R. submitted to the EMBL Data Library, August 1990 A;Reference number: $40773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Status: translated from GB/EMBL/DDBJ
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A;Molecule type: mRNA
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ecule type: mRNA; DNA
idues: 66-79 <MKI3>
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A.Cross-references: EMBL:X16384; NID:922795; PIDN:CAA34420.1; PID:922796
C.Superfamily: cellular tumor antigen p53
C.Superfamily: cellular tumor antigen p53
C.Superfamily: division control; DNA binding; homotetramer; nucleus; pho TF:176,179,238,242/Binding site: zinc (Cys, His, Cys, Cys) #status predicted
F:392/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Molecule type: DNA
A;Residues: 1-134,'V',136-390 <BIE>
A;Cross-references: GB:X00876; NID:9871420; PIDN:CAA25420.1; PID:9871421; GB:X01237:
                                                                                                                                                                                                                                                                                                                    11;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Molecule type: mRNA
A;Residues: 1-159, H',161-167, G',169-233, 'I',235-390 <ZAK>
A;Cross-references: GB:X01237; GB:K01700; NID:953875
A;Arai, N.; Nomura, D.; Yokota, K.; Wolf, D.; Brill, E.; Shohat, O.; Rotter, V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     p53.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         127
                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                         14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Macsidues: 1-134, VV, 136-390 <CHU>
A; Residues: 1-134, VV oren. M.; Bienz, B.; Lavie, V.; Hazum, S.; Givol, D.
R, Zakut-Houri, R.; Oren. M.; Bienz, B.; Lavie, V.; Hazum, S.; Givol, D.
Nature 306, 594-597, 1983
A; Title: A single gene and a pseudogene for the cellular tumour antigen
A; Reference number: A02684; MUID:84068204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EFITILYNFMCNSSCVGGMNRRPILLIITLEMRDGQVLGRRSFEGRICACPGRDRKADED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             128 EVIFQOSSTAKSAIWIYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               188 IDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGT
                                                                                                                                                                                                                                                                                                                                                                                                                                   18 TESDLWKLLPENNVLSPLPSQA-----VDDLM-----LSPDDLAQW-LTEDPGP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAP-----VIPSNTDYPGPHHF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEAPRMSEAAP----HMAPTPAAPTPAAP-----APAPSWPLSSSVPSQKTYHGSYGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;pate: 28-Aug-1985.
;Accession: A2739; S65336; A2684; S38822; S38823; S40014; L48703
;Blenz, B.; Zakut-Houri, R.; Givol, D.; Oren, M.
;MBO J. 3, 2179-2183, 1984
;ARference number: A22739; MUID:85027173
                                                                                                                                                                                                                                                                Length 393;
                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                          21.2%; Score 718.5; DB 1;
42.1%; Pred. No. 9e-43;
tive 58; Mismatches 103;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C; Species: Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360 RGRENFEILMKLKESLELME 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RGRERFEMFREINEALELKD 352
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Loorg. Khim. 13, 1691-1694, 1987
                                                                                                                                                                                                                                                                Query Match 21.2%
Best Local Similarity 42.1%
Matches 160; Conservative
A; Molecule type: mRNA
A; Residues: 1-393 <RIG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Molecule type: mRNA
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                                                                                                                                                                                                                                                                                           tumor suppressor gene in the Molt-4 T-lymphobla
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bte: mutant sequence with altered splicing and termination expressed in Molt-4 T-lymp
stersen, G.; Song, D.; Huegle-Doerr, B.; Oldenburg, I.; Bautz, E.K.F.
Gen, Genet. 249, 415-431, 1995
tle: Mapping of linear epitopes recognized by monoclonal antibodies with gene-fragme
iference number: S60151; MUID:96133682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Molecule type: DNA
A;Residues: 3-44 <PET>
R;Dang, C.V.; Lee, W.M.F.
Biol. Chem. 264, 18019-18023, 1989
A;Title: Nuclear and nucleolar targeting sequences of c-erb-A, c-myb, N-myc, p53, HSP70,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R:Rigaudy, P.; Eckhart, W.
Nucleic Acids Res. 17, 8375, 1989
A:Ittle: Nucleotide sequence of a cDNA encoding the monkey cellular phosphoprotein p53.
A:Reference number: S06594; MUID:90045967
A;Accession: S06594
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Species: Cercopithecus aethiops (green monkey, grivet)
Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEDHYREQQALNESSAKNG-----AASKRAFKQSPPAVPALGAGVKKRRHGDEDTYY 356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         QMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDT-MSPAPV-----IPSNTDYPGP 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKA 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EHVTDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQ 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VGTEFTTILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGRICACPGRDRKA 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
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                                                                                                                                                    ;Molecule type: DNA
;Redidues: 77.4277, SS, 279-282 <HENZ>
;Redidues: 77.4277, SS, 1279-282 <HENZ>
;Cross references: GB:S41977; NID:9232815; PIDN:AAB19325.1; PID:9232816
;Chow, V.T.; Quek, H.H.; Tock, E.P.C.
anoer Lett. 73, 141-148, 1993
:Title: Alternative splicing of the p53 tumor suppressor gene in the Mol
:Reference number: 152681; MUID:94036762
   Molecule type: DNA
Residues: 244-247, W', 249-252 <HENI>
Cross-references: GB:S41969; NID:9232813; PIDN:AAB19324.1; PID:9232814
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 21.4%; Score 724.5; DB 1; Length 393; Best Local Similarity 41.0%; Pred. No. 3.4e-43; Matches 157; Conservative 57; Mismatches 104; Indels 65
                                                                                                                     atus: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                     Status: translated from GB/EMBL/DDBJ
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LOIRGRERFEMFRELNEALELKD 352
                                                                                                                                                                                                                                                                                                                                                                                                                       Molecule type: mRNA
Residues: 327-331, 'DQTSFQKENC'
Cross-references: GB:S66666; N1
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A; Molecule type: mENA
A; Residues: 1-381 <HAN>
A; Cross-references: EMBL:M13874; NID:9200202; PIDN:AAA39883.1; PID:9200203
A; Cross-references: EMBL:M13874; NID:9200202; PIDN:AAA39883.1; PID:9200203
A; Note: the nucleotide sequence was submitted to the EMBL Data Library, July 19
C; Comment: This sequence, produced by alternative splicing of the tenth intron,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F.267-283/Region: conserved region V.
F.313-319/Region: nuclear location signal
F.313-319/Region: tetramer-association
F.313-317/Region: tetramer-association
F.313-3176-3137/Rainding site: phosphate (Ser) (covalent) #status predicted
F.312/Rainding site: zinc (Cys, His, Cys, Cys) #status predicted
F.312/Rainding site: phosphate (Ser) (covalent) (by cdc2 kinase) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        transformed and normal cells of diffa
                                                                                                                                       229 IHYKYMCNSSCMGGMNRRPILJIITLEDSSGNLLGRDSFEVRVCACPGRDRRTEEENFRK 288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      191
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               QMSSRAASASPY--TPEHAASVPIHSPYAQPSSTFDIMSPAPVIPSNTDYPGPHHFEVTF 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A. Molecule type: mRNA
A. Residues: 1-381 CARA>
A. Residues: 1-381 CARA>
A. Cross 1 - 381 CARA>
A. Mucleic Acids Res. 20, 1979 - 1981, 1992
A. Title Alternatively spliced p53 RNA in transformed and normal cells of A. Reference number: 35478; WID: 92253421
A. Reference number: 35478
A. Accession: 535478
A. Status: nucleic acid sequence not shown; translation not shown
                                                                                   312 QQALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVRGRENFEILMKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVTDVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  192 KRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C.Keyvords: alternative splicing; phosphoprotein; zinc
F:1-44/Domain: transcription activation *status predicted
F:16-26/Region: conserved region I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99-289/Domain: DNA-binding core #status predicted <DBC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   s not known.
C.Superfamily: cellular tumor antigen p53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         conserved region III
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                                                                                                                                                                                                                                   372 KESLELME 379
                                                                                                                                                                                                                                                                                                              342 NEALELKD 349
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Status: preliminary; translated from GB/EMBL/DDBJ
Molecule type: mRNA
Molecule type: mRNA
Residues: 1-47, 'K',49-78,'QW',82-390 cRES
Cross-references: EMBL:X00741; NID:953570;
Comment: This DNA-binding protein plays an essential role in the regulation of cell di
Comment: The tetramer association region may exhibit a beta-turn, beta-sheet, beta-tur
Superfamily: cellular tumor antigen p53
Reywords: apoptosis; cell division control; DNA binding; homotetramer; phosphoprotein;
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Residues: 1-167, G'.169-390 CARA3>

Cross references: EMBL:M13873; NID:g200200; PIDN:AAA39882.1; PID:g200201

Caras references: EMBL:M13873; NID:g200200; PIDN:AAA39882.1; PID:g200201

Caracter and Caract
Mol. Cell. Biol. 6, 3232-3239, 1986
A/Title: Immunologically distinct p53 molecules generated by alternative splicing.
A/Reference number: S38822; MUID:87064640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule rype: mRNA
A; Residues: 1-390 <aral-
h; Cossulos: 1-390 <aral-
h; Cross-references: EMBL:M13872; NID:g200198; PIDN:AAA39881.1; PID:g200199
A; Accession: 538823
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-167, (4', 169-233, 1', 235-390 <aral-
A; Cross-references: EMBL.M13873
B; Aral, N.; Nomura, D.; Yokota, K.; Wolf, D.; Brill, E.; Shohat, O.; Rotter, V.
submitted to the EMBL Data Library, July 1988
A; Reference number: $40014
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          252 ILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGRICACPGRDRKADEDHYRE 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74 OMSSRAASASPY--TPEHAASVPTHSPYAOPSSTFDTMSPAPVIPSNTDYPGPHHFEVTF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           111 LOSGTAKSVMCTYSPPLNKLFCQLAKTCPVQLWVSATPPAGSRVRAMAIYKKSQHMTEVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  192 KRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21.0%; Score 711.5; DB 1; Length 390; 43.2%; Pred. No. 2.7e-42; Live 64; Mismatches 104; Indels 41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-26/Region: conserved region I
99-289/Domain: DNA-binding core #status predicted <DBC>
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114-139/Region: conserved region II
160-192/Region: L2 loop
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Best Local Similarity 43.29
Matches 159; Conservative
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3 102 47 157 157	DD 215 GRDESYPRELSNSVSTYRPFGLGSESPYROPSDGMERPSSLMDSSQEKFYPDTSFGED 272 QY 120DYPGPHHFEVTFQOSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKV 165	205 EGOSAPASHLIRVEGNNISOYUDDPVTGROSVVVPY-EPP	QY 296ACPGRDRRADEDHYREQQALNESSAKNGAASKRAF 330 1:	QY 378PSYGP 409 DD 599 GGLTGFKTAPYRERAPQFGESVGSFRSNSFNSTFEHHLFPSPLEHGTPFOREPVGPSSAP 658 QY 410 VLSPMNKVHGGMNKLPSVNQLVGQPPPHSSAATPNLGPVGPG 451 DD 659 PVPPKDHGGIFSRDAPTHLPSVDLSNPFTKEAALAHAAPPPPGEHSGIPFPTPPPP- 716	OY 452 MLNNGHAVPANGEMSSSHSAQSMVSGSHCTPPPPYHADPSLVSFLTGLGCPNCIE 507	TISIGGSGELGRORVMEAV :	C: Species: Arabidopsis thaliana (mouse-ear cress) C:Date: 30-Apr-1999 #sequence_revision 30-Apr-1999 #text_change 30-Apr-1999 C:Accession: T04518 R:Bevan, M.; Brandt, P.; Dose, S.; Jarke, D.; Scharfe, M.; Schon, O.; Hoheisel Submitted to the Protein Sequence Database, February 1999 A:Reference number: 215376 A:Accession: T04518 A:Accession: T04518 A:Residues: 1-864 - 4884 A:Residues: 1-864 - 8884 A:Residues: EMBL:AL035353 A:Experimental source: cultivar Columbia; BAC clone F16A16	
	·	999; Cornelisse, C. carcinoma.				; Nomura, N.; s from human		45;
	OY 3/2 KESLELMELVPOPLYDSXROQUOLLORPSX 407 DD 342 NEALELKDAHATEESGDSRAHSSLOPRAF 370 RESULT 13 146226 5.5pectes: Canis lupus familiaris (dog)	equence_revision 21-Feb-1997 #text_change 23-Jul-199 uwen, I.S.; Voesten, A.; Rutteman, G.R.; Vos, J.H.; 39-2046, 1994 a gene is subject to somatic mutations in thypoid ca 6226; WID:95150524 translated from GB/EMBL/DDBJ	77 <dev> nces: GB:L27630; NII 1; 61/3 cellular tumor anti</dev>	Query Match 7.3%; Score 248.5; DB 2; Length 77; Best Local Similarity 61.5%; Pred. No. 5e-11; Matches 48; Conservative 13; Mismatches 16; Indels 1; Gaps Qy 183 KAEHVIDVVKRCPNHELGRDFNEGOSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEP 242 : : : : : : Db 1 KSEFVTEVVRRCPHHERCSDSSDG-LAPPOHLIRVEGNLRAKYLDDRYTFRHSVVVPYEP 59	Oy 243 PQVGTEFTILINEMCNS 260 : :: : Db 60 PEVGFDYTTIHYNYMCNS 77 RESULT 14 T00074 hypothetical protein KIAA0460 - human (fragment)	C; Species: Homo sapiens (man) C; Species: Homo sapiens (man) C; Date: 22-Jan.1999 #sequence_revision 22-Jan.1999 #text_change 07-May-1999 C; Accession: T00074 R; Seki, N.; Ohira, M.; Nagase, T.; Ishikawa, K.; Miyajima, N.; Nakajima, D. DNA Res. 4, 345-349, 1997 A; Title: Characterization of cDNA clones in size-fractionated cDNA librarie A; Reference number: Z14085; WUID:98116662 A; Accession: T00074 A; A		; conservative /:

O.; Hohelsel, J.; M

us-09-125-005-6.rpr

A; Map position: 4 A; Note: Intron positions not resolved A; Note: F16A16.80

22; 91 ISTPATHPQSSVSLPPPPPPPPTISGLDFGLKLGVKMMWNSYGKAAKSFKASRHRDPFL 150 | : | | |||| : 111|| | 111|| | 111|| | 111|| | 111|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| | 110|| 125 HHFEVTFQQSSTAKSATWTYSPLLKKLYCQ-IAKTCPIQIKVS----TPPPPGTAIRAM 178 179 PVYKKAEHVTDVVKRCPNHELGRDFNEG--QSAPASHLIRVEGNNLSGYVDDPVTGRQSV 236 VVPYEPPQVGTEFTILLYNFMCNSSCVGGMNRRPILLIITLEMRDGQVLGRR*---SFEG 292 -----RICACPGRDRKADEDHYREQ--QALNESSAKNGAASKRAFKQSPPAVPALGAG 343 351 - KRSRAADMHNLSERVLIFYFLETEGKDQREDENSARTPSSLQKDSSWKGFKVSWKINAN 409 PSVNQLVGQPPPHSSAATPNLGPVGPGMLNNHGHAVPA----NGEMSSSHSAQSMVSGSH 480 CTPPPPYHADPSLVSFLTGLGCPNCIEYFTSQGLQSIYHLQNLTIEDLGALKIPEQYRMT 540 375 L--ELMELVPQPLVDSYRQQQQLLQRPSHLQPP-----SYGPVLSPMNKVHGGMNKL 424 515 SNPVPNQPRFPAYIN------PYSQFVGLHQMQ------QPPLPLQVI 550 -----NFEILMKLKES 374 467 PPFVPFPGKIFPR------PGHWAGVGPSYPALRYPFPDTQASDLSRVHVPSLH 514 Query Match
4.3%; Score 145; DB 2; Length 864;
Best Local Similarity 17.7%; Pred. No. 0.023;
Matches 100; Conservative 83; Mismatches 207; Indels 174; 344 VKKRRHGDEDT-----YYLQVRGRE-----95 THSPYAQPSSTFDTMSPAPVIP--SNTDY-----LSQYLLPVNQHHSLVSATQVLASN 574 541 IWRGLQDLKQGHDYSTAQQLLRSS 564 237 293 425 ö g ò 윱 용 8 à 셤 윱 ö

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